

DECLARATION OF PERFORMANCE NO. USSK-01/2018

1. Unique identification code for product type:	Spiral welded hollow sections of steel grades: S235JRH, S270J0H, S275J2H, S355J0H, S355J2H, S355K2H acc. to EN 10219-1:2006
2. Intended use/es:	For use in metal buildings and buildings constructed of metal and concrete.
3. Manufacturer:	U. S. Steel Košice, s. r. o. Vstupný areál U. S. Steel 044 54 Košice Slovenská Republika Producing plant: Radiators and Pipes Division Plant, Pipes Mill
4. Authorized representative:	not relevant
5. System/s of AVCP:	system 2+
6a. Harmonized standard:	EN 10219-1:2006 Cold formed welded structural hollow sections of non-alloy and fine grain steels. Part 1: Technical delivery requirements.
Notified body/ies:	TÜV NORD Systems GmbH & Co. KG Große Bahnstraße 31 D-22565 Hamburg Identification number of the notified body: 0045 Issued: Certificate of Factory Production Control No. 0045-CPR-0838

7. Declared performance/s:

Essential characteristics	Performance	Technical specification
Tolerances on dimensions and shape	<i>Outside diameter (D)</i>	± 1% min. ±0,5 mm max. 10 mm
	<i>Thickness (T)</i>	<u>D ≤ 406,4 mm:</u> T ≤ 5 mm ± 10% T > 5 mm ± 0,50 mm <u>D > 406,4 mm:</u> ± 10% max. ± 2 mm
	<i>Out of roundness (O)</i>	2% At diameter to thickness ratio ≤ 100
	<i>Straightness (e)</i>	0.20% of total length 3 mm over any 1 m of length
	<i>Weight (M)</i>	± 6% of the respective length
		EN 10219-2:2006 Article 6, table 2

Minimum elongation A	S235JRH	24%	EN 10219-1:2006 Article 6.7.1, table A.3
	S275J0H	20%	
	S275J2H		
	S355J0H	20%	
	S355J2H		
	S355K2H		

Minimum upper yield strength R_{eH}	S235JRH	235 MPa	EN 10219-1:2006 Article 6.7.1, table A.3
	S275J0H	275 MPa	
	S275J2H		
	S355J0H	355 MPa	
	S355J2H		
	S355K2H		

Tensile strength R_m	S235JRH	360 to 510 MPa	EN 10219-1:2006 Article 6.7.1, table A.3
	S275J0H	410 to 560 MPa	
	S275J2H		
	S355J0H	470 to 630 MPa	
	S355J2H		
	S355K2H		

Minimum impact energy KV	S235JRH*	27 J at +20 °C	EN 10219-1:2006 Article 6.7.1, table A.3
	S275J0H*	27 J at 0 °C	
	S275J2H	27 J at -20 °C	
	S355J0H*	27 J at 0 °C	
	S355J2H	27 J at -20 °C	
	S355K2H	40 J at -20 °C	

* The value of impact energy is evaluated only if it is agreed upon during quoting and ordering

Weldability	The above-stated steel grades are weldable	EN 10219-1:2006 Article 6.8.1 table A1, A2
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		Maximum weight ratio in %						
		C	Si	Mn	P	S	N	
Chemical analysis	S235JRH	0,17	-	1,40	0,040	0,040	0,009	EN 10219-1:2006 Article 6.6, table A.1
	S275J0H	0,20	-	1,50	0,035	0,035	0,009	
	S275J2H	0,20	-	1,50	0,030	0,030	-	
	S355J0H	0,22	0,55	1,60	0,035	0,035	0,009	
	S355J2H	0,22	0,55	1,60	0,030	0,030	-	
	S355K2H	0,22	0,55	1,60	0,030	0,030	-	

The Declaration of performance for download: <http://www.usske.sk/sk/produkty/spiralovo-zvarane-rury/vyhlasenie-o-parametroch>

8. The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by
Kosice, December 4, 2018:

Name: Ing. Vladimír Timko
Position: Director Radiators and Pipes Division Plant

Signature:



Ing. Ferdinand Kóča
Head of QMS Department

